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Martin et al

[34] MULTIPLE LUMEN CATHETER

United States Patent 119

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[*] Notice: The portion of the term of this petent subsequent to Mar. 23, 2010, has been disclaimed.

[21] Appl No.: 481,169

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(Under 37 CPR 1.47)

Related U.S. Application Data

[63] Continuation of Sci. No. 205,331, Mar. 3, 1994, Pat. No. 5,472,417, which is a condinuation of Ser. No. 715,351, Oct. 30, 1991, abundamed, which is a condinuation of Ser. No. 241,364, Duc. 22, 1988, Pat. No. 5,195,962.

[30]	Foreign Application Priority Data		
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[52] T	8. CL604/3; 604/177; 604/281		
[58] \$	eld of Search604/43, 264, 280-283 604/284, 101, 102, 164-169, 4-7, 174		

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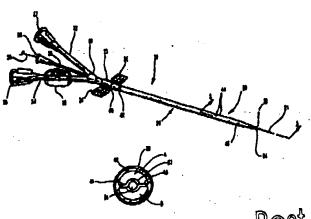
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[57] ABSTRACT

The invention provides a cylindrical clongate body extending from a proximal to a distri end, the body defining two similar longitudinally extending lumens separated by a septum and a further lumen defined within the septum, a tip extending from the distal end of the body defining a past of the further humen, a connector at the proximal end. tubes coupled to the connector and in fluid communication through the connector one with each of the respective lumens, the body defining openings providing access one to each of the longitudinally extending lumins, the openings being spaced from one another longitudinally of the body and the further lumen extending longitudinally beyond the longitudiasily extending lamens and through the tip, the further lumes terminating at an opening at the distal end of the tip and the tip being convergently tapered as it extends longitudinally from the body and the longitudinally extending lumens being blocked immediately adjacent and distally of the openings.

25 Claims, 9 Drawing Shorts



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